

41) POSTER

SOME CHARACTERISTICS OF THE TURBULENCE STRUCTURE EVOLUTION IN THE ATMOSPHERIC SURFACE LAYER ABOVE PANTANAL WETLAND

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Abstract: Pantanal is one of the biggest wetland regions of the world, with an area of approximately 150,000 km². It is located in central part of the South America (19° S, 57° W) and presents a climatology which is characterized by a very dry season and a wet period in which strong floods are often observed. We compare some mean characteristics of the atmospheric surface layer (ASL) structure during wet and dry seasons over Pantanal Wetland. Momentum and sensible heat fluxes and its associated correlation coefficients were calculated for some periods during IPE-1 wet season campaign and IPE-2 dry season campaign. Turbulence scale characteristics, stability parameters and coherent structures behavior were also investigated. It seems that turbulence structure characteristics are similar during wet and dry seasons, except during early evening transition periods. This is probably due to peculiar energy budget conditions associated to the existence of a 15cm shallow water layer during wet season in Pantanal. Other aspects of the dry and wet ASL characteristics are presented and some possible physical explanations for the results are discussed.